

FIG. 1a substitute sheet (Rule 26)

WO 99/27336

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PCT/IL98/00568

6

2/8

From FIG. 1a 1

PROCESSING THE SYSTEM OF N*M EQUATIONS, IN EACH OF WHICH THE EM RADIATION VALUE V IN A PARTICULAR SPECTRAL BAND Δ_i IS A FUNCTION OF TEMPERATURE T AND EMISSIVITY $\mathcal E$ OF THE SAMPLE

$$V_{T_j}^i = f(T_j, \epsilon_i)$$

OBTAINING M SUCCESSIVE VALUES OF TEMPERATURE OF THE OBJECT $(T_1 \ldots T_j \ldots T_M)$, and OBTAINING N VALUES OF EMISSIVITIES $(\mathcal{E}_1 \ldots \mathcal{E}_i \ldots \mathcal{E}_N)$ FOR N SPECTRAL BANDS, RESPECTIVELY

FIG. 1b

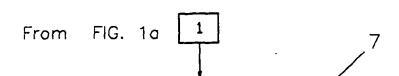
SUBSTITUTE SHEET (RULE 26)

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PCT/IL98/00568

WO 99/27336

3/8



PROCESSING THE SYSTEM OF N*M EQUATIONS, IN EACH OF WHICH THE EM RADIATION VALUE V IN A PARTICULAR SPECTRAL BAND \triangle_i IS REPRESENTED AS A FUNCTION OF TEMPERATURE T AND THE TEMPERATURE AND WAVELENGTH DEPENDENT **EMISSIVITY**

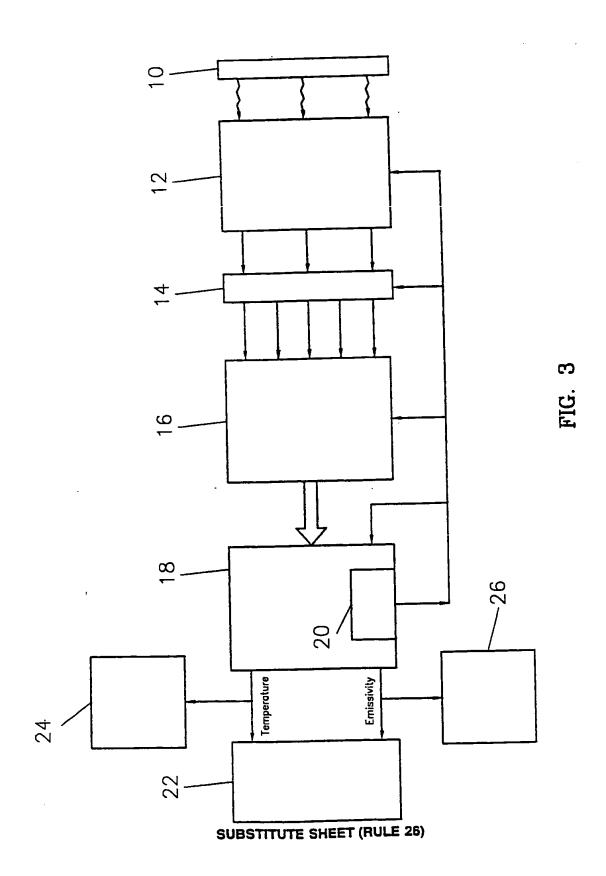
$$V_{T_i}^i = f(T_j, \varepsilon_i(\lambda, T_j))$$

OBTAINING M SUCCESSIVE VALUES OF THE OBJECT'S TEMPERATURE $(T_1 \dots T_{j} \dots T_M)$ AND

OBTAINING PARAMETERS OF THE FUNCTION \mathcal{E}_{i} (λ , T_{i}) FOR EACH SPECTRAL BAND Δ_{i}

FIG. 2

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PCT/IL98/00568

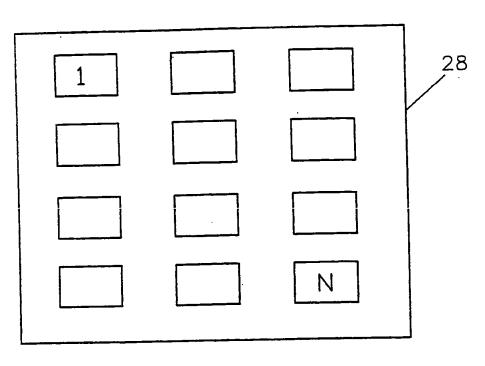


FIG. 4a

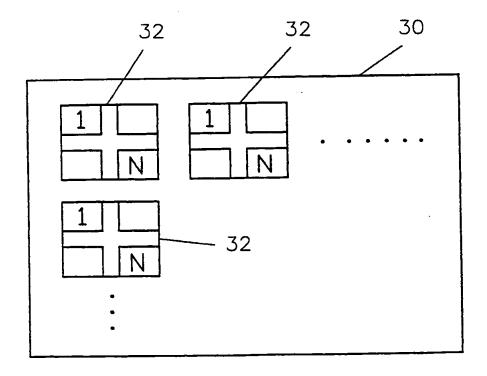
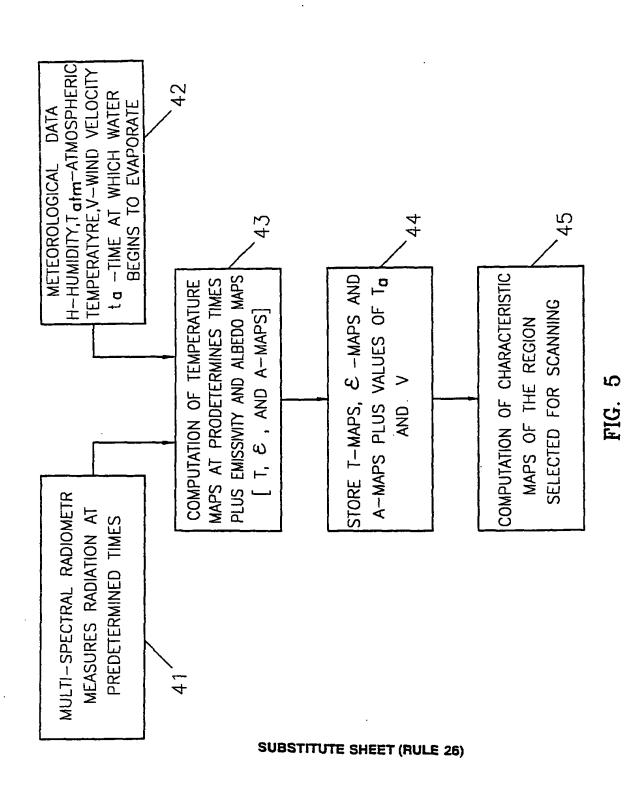


FIG. 4b SUBSTITUTE SHEET (RULE 26)



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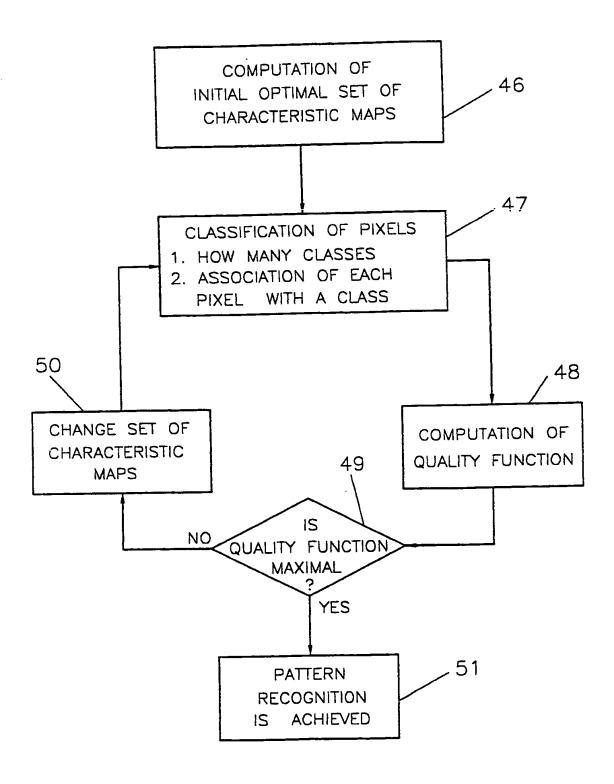


FIG. 6
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